Fast Recovery Diode Type SA34MI2698Z0



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SA	34	MI	2698	Z	0	
-	Voltage Code	MQ = standard capsule MI = rupture rated capsule	Current code	Type code	Special code	Optional code

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Absolute Maximum Ratings

	VOLTAGE RATINGS	MAXIMUM LIMITS	UNITS
V_{RRM}	Repetitive peak reverse voltage, (note 1)	3400	V
V_{RSM}	Non-repetitive peak reverse voltage, (note 1)	3500	V
V _{RDC}	Maximum reverse D.C. Voltage, (note 1)	1850	V
note 1)	De-Rating factor of 0.13% per °C is applicable for T _j below 25°C		

	OTHER RATINGS	MAXIMUM LIMITS	UNITS
I _{F(AV)M}	Maximum average forward current, T _{sink} = 55°C, (note 1)	2698	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 1)	1825	А
I _{F(AV)M}	Maximum average forward current, T _{sink} = 100°C, (note 2)	1165	А
I _{F(RMS)}	Nominal RMS forward current, T _{sink} = 25°C (note 1)	4979	Α
I _{f(d.c.)}	D.C. forward current, T _{sink} = 25°C (note 3)	4545	А
I _{FSM}	Peak non-repetitive surge current t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	27.8	kA
I _{FSM2}	Peak non-repetitive surge current t_p = 10ms, $V_{RM} \le 10V$, (note 4)	30.6	kA
I ² t	I^2 t capacity for fusing t_p = 10ms, V_{RM} = 60% V_{RRM} , (note 4)	3.86 · 10 ⁶	A^2s
I ² t	I^2 t capacity for fusing t_p = 10ms, $V_{RM} \le$ 10V, (note 4)	4.68 · 10 ⁶	A^2s
T _{jop}	Operating temperature range	-40 to +150	°C
T _{stg}	Storage temperature range	-40 to +150	°C
note 1)	Double-side cooled, single phase, 50Hz, 180° half-sinewave.		
note 2)	Single-side cooled, single phase, 50Hz, 180° half-sinewave.		
note 3)	Double-side cooled.		
note 4)	Half-sinewave, 150°C T _j initial.		



Characteristics

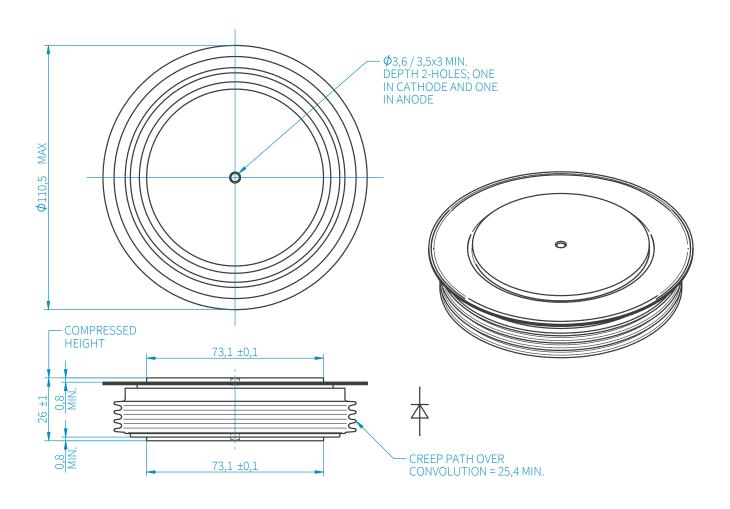
	PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNITS
V_{FM}	Maximum peak forward voltage	I _{FM} =6000A	-	-	3.0	V
v HM		I _{FM} =5400A	-	-	2.9	V
V_{T0}	Threshold Voltage		-	-	1.00	V
r _T	Slope resistance		-	-	0.33	$m\Omega$
V_{FRM}	Maximum forward recovery voltage	di/dt = 1000A/μs, T _j = 25°C	-	-	20	V
* FRM		di/dt = 1000A/μs	-	-	45	V
I _{RRM}	Peak reverse current	Rated V _{RRM}	-	-	150	mA
Q _{rr}	Recovered charge		-	1200	-	μC
Q _{ra}	Recovered charge, 50% Chord	$I_{FM} = 1000A$, $t_p = 1000\mu s$, $di/dt = 60A/\mu s$, $V_R = 50V$,	-	620	800	μC
I _{rm}	Reverse recovery current	50% Chord.	-	200	-	А
t _{rr}	Reverse recovery time, 50% Chord		-	6.2	-	μs
R_{thJK}	Thermal resistance, junction to heatsink	Double side cooled	-	-	0.011	K/W
rtnJK		Single side cooled	-	-	0.022	K/W
F	Mounting force	note 2)	37	-	47	kN
W _t	Weight		-	1200	-	g
note 1)	Unless otherwise indicated T _j = 150°C					
note 2)	For other clamp forces consult factory					

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